

**ABSTRACT OF THE DISCLOSURE**

5           A conveyor belt scale system for increasing the weight measurement accuracy  
of a conveyor belt scale. The conveyor belt scale system includes a conveyor having a  
support frame and a belt, a first load cell positioned within the conveyor for measuring  
the belt after receiving a load of material (full weight), a second load cell positioned  
10       within the conveyor for measuring the belt prior to receiving a load of material (empty  
weight), a velocity sensor within the conveyor for measuring the velocity of the belt,  
and a control unit in communication with the sensors. The control unit measures the  
empty weight and the full weight of the belt upon a plurality of locations upon the belt.  
The control unit corresponds the empty weight with the full weight of each of the  
measured locations to calculate the material net weight.

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